## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 18004 PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No. PCT/DK2004/000772	International filing date (day/month/year) 08.11.2004	Priority date (day/month/year) 10.11.2003			
International Patent Classification (IPC) or na H04L29/06	ational classification and IPC				
Applicant GN NETCOM A/S et al.					
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a total of	of 5 sheets, including this cover shee	t.			
	A LANGUEGO COMPRETE DE LA COMPRETE D				
		s sheets, as follows:			
<ul> <li>a.          Sent to the applicant and to the International Bureau) a total of 6 sheets, as follows:         Sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</li> </ul>					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
coguence listing and/or tal	Bureau only) a total of (Indicate type at oles related thereto, in computer read: Listing (see Section 802 of the Admit	nd number of electronic carrier(s)) , containing a able form only, as indicated in the Supplemental nistrative Instructions).			
4. This report contains indications re	elating to the following items:				
☐ Box No. 1 Basis of the op	inion				
☑ Box No. II Priority					
☐ Box No. III Non-establishm	nent of opinion with regard to novelty,	inventive step and industrial applicability			
☐ Box No. IV Lack of unity of					
☐ Box No. V Reasoned state applicability; cit	ement under Article 35(2) with regard ations and explanations supporting s	to novelty, inventive step or industrial uch statement			
☐ Box No. VI Certain docum					
	in the international application				
☐ Box No. VIII Certain observ	ations on the international application				
Date of submission of the demand	Date of comp	pletion of this report			
09:09:2005	20.12:200	5			
Name and mailing address of the internation preliminary examining authority:		Officer			
European Patent Office - P.E NL-2280 HV Rijswijk - Pays Tel. +31 70 340 - 2040 Tx: 3	Bas I Veen. G				
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/DK2004/000772

		N. J. Decis of the years		
		No. I Basis of the report		
1.	With filed	With regard to the <b>language</b> , this report is based on the international application in the language in which it was iled, unless otherwise indicated under this item.		
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:		
		☐ international search (under Rules 12.3 and 23.1(b))		
		□ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3)		
2.	hau	n regard to the <b>elements*</b> of the international application, this report is based on <i>(replacement sheets which</i> e been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ort as "originally filed" and are not annexed to this report):		
	Des	cription, Pages		
	1-4	received on 09.09.2005 with letter of 09.09.2005		
	Cla	ms, Numbers		
	1-9	received on 09.09.2005 with letter of 09.09.2005		
	Dra	wings, Sheets		
	1/1	as originally filed		
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		☐ the claims, Nos. ☐ the drawings, sheets/figs		
		☐ the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.	□ had Su	This report has been established as if (some of) the amendments annexed to this report and listed below do not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the opplemental Box (Rule 70.2(c)).		
		the description, pages		
		☐ the claims, Nos. ☐ the drawings, sheets/figs		
		the sequence listing (specify):		
		-□-any table(s)-related to sequence listing-(specify):		
	*	If item 4 applies, some or all of these sheets may be marked "superseded."		

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/DK2004/000772

Day No. II. Drigrity				
Box No. II Priority				
prescribed time limit the requ	uested:		had been claimed due to the failure to furnish within	the
copy of the earlier application	ation who	se priority	has been claimed (Rule 66.7(a)).	
	application	n whose p	iority has been claimed (Rule 66.7(b)).	
o D. This was at her book octabli	shed as it	i no priority for the pur	had been claimed due to the fact that the priority cla poses of this report, the international filing date indica	iim has ited
3. Additional observations, if neces	sary:			
		Autiala í	5(2) with regard to novelty, inventive step or indu	ustrial
Box No. V Reasoned statem applicability; citations and ex	ient unde planation	s suppor	ing such statement	
applicatiney, chariere and est				
1. Statement				
Novelty (N)	Yes:	Claims		
	No:	Claims	1-9	
Inventive step (IS)	Yes:	Claims		
mivernive stop (i.e.)	No:	Claims	1-9	
P. L. W. L. MAN	Voor	Claims		
Industrial applicability (IA)	ves: No:	Claims	1-9	
	NO.	Ciairis	1-0	
2. Citations and explanations (Rul	e 70.7):			
see separate sheet				
	ations s	the inter	national application	
The following observations on the claims are fully supported by the d	clarity of lescription	the claims	description, and drawings or on the question whethe	r the
see separate sheet	-			

PCT/DK2004/000772

#### Re Item V.

The following document is referred to in this communication:

D1: EP 0990969

- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-9 is not inventive in the sense of Article 33(3) PCT.
- 1.1 D1 discloses all the features of independent claim 1 (see D1, column 3, lines 3-11; 18-20; 35-44; c.3l.57-c.4l.3), except for the feature that the commands to be transferred to the softphone are entered via control buttons on the control unit. (in paragraph 16, D1 discloses the ability to initiate specified types of outgoing calls, without explicitly stating **how** such calls are initiated).

It is obvious that, whenever it is desired to transfer commands to an application (the softphone in this case) running on a PC, these commands must be entered on a suitable input device connected to the PC. In the present case, there are at least two input devices (the keyboard and the control unit) connected to the PC, both of which are suitable to transfer commands to the PC. Therefore, the designer has to make a choice, and such a choice cannot be considered to imply an inventive step in the sense of Art. 33(2) PCT.

Therefore, claim 1 does not meet the requirements of Art. 33 PCT.

1.2 Dependent claims 2-9 do not contain any features which, in combination with the features of claim 1, to which they refer, meet the requirements of the PCT in respect of novelty and inventive step (Article 33(2) and (3) PCT).

# Re Item VIII Certain observations on the international application

2.1 Due to the formulation ("Switching"), it is not clear whether claims 1-9 relate to an apparatus or to a method.

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/DK2004/000772

2.2	In claim 1, line 6, it is not clear whether the expression "via unit" relates to
	"adapted" preceding it or to "to transfer" following it. The latter option was assumed in
	the above reasoning.

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The invention relates to switching of a communications unit to the softphone of a PC via an electrical connection.

Such a switching is known from the published US Patent Application No. 2003/0096589 A1.

This known system uses two channels for communication, viz. partly a WAN (Wide Area Network) connection for normal calls and partly a mobile network for emergency calls to e.g. 911 in the USA or 112 in Denmark. The purpose is to make it possible for an emergency call to be localized by the receiver.

The document does not disclose or suggest whether it is possible to use a softphone if e.g. the PC associated with the softphone is blocked by an access code.

EP 0 990 969 A1 discloses a system where a locked PC can be opened in a minimized state, such as allowing a telephone call. This requires that the PC has its own software to allow it to receive a telephone call by operating the PC's keyboard.

Accordingly, an object of the invention is to provide the option of using a softphone also even if the associated PC is blocked by a security setting. and further to get access to the PC without using the PC's own software and keyboard.

The object of the invention is achieved by a switching of the type defined in the introductory portion of claim 1, which is characterized in that a control unit is coupled between the communications unit and the softphone, said control unit being adapted via control buttons on the control unit to transfer commands to the softphone, both when the PC is coupled in normal

position and when the PC is coupled in security position.

The softphone may hereby be used also in those cases where the other communication paths of the PC are blocked.

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An easy installation of the control unit may be provided if, as stated in claim 2, the control unit is connected to the softphone via a USB gate, while the communications unit is connected by a wire to the control unit.

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If a user-friendly coupling is desired where the control unit "physically" follows the communications unit, i.e. is kept e.g. in a pocket, it is an advantage if, as stated in claim 3, the control unit is connected wirelessly, e.g. by means of a short range Bluetooth connection, to the softphone and the communications unit.

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For a suitable number of various commands to be applied from the control unit to the softphone, it is expedient if, as stated in claim 4, the control unit has a plurality of setting buttons, e.g. three. If these buttons are arranged such that one or two depressions result in the application of a command, nine different commands may be given.

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To maintain the security of the PC when it is blocked, e.g. by an access code, it is expedient if, as stated in claim 5, the PC, when blocked for use by the security setting, is open for the reception of a limited number of commands from the control unit to the softphone.

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This advantage is enhanced additionally if, as stated in claim 6, the control unit comprises a sound card, since the access to the PC itself, including the use of its sound card when it is otherwise blocked, is limited to the greatest extent possible.

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The user friendliness of the switching is increased if, as stated in claim 7, the communications unit is formed by a passive headset consisting of a microphone and a speaker.

- To increase the flexibility of the switching according to the invention additionally, it is an advantage if, as stated in claim 8, the communications unit is formed by an active headset with its own power supply and control buttons.
- Finally, it is an advantage if, as stated in claim 9, the headset is powered from the USB gate via the control unit for the charging of the headset.

The invention will now be explained more fully with reference to the single figure of the drawing.

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The figure schematically shows a conventional PC structure containing the usual components, such as a CPU 1, a display 2, a keyboard 3, a mouse 4, and a printer 5.

Further, the PC may be connected to a softphone which is denoted 15 in the figure. In practice, this softphone 15 is a graphic telephone with graphic keys and function buttons, as is known from a stationary telephone or a mobile telephone. The graphic telephone is displayed on the display 2, but is shown here as an independent unit 15 for clarity.

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The PC\_1 has several connection options, one of which is denoted 6, which is a USB gate connected by a wire to an input 8 on a control unit 9 shown here with three buttons 10.

The control unit has a gate 11 which is coupled via a wire 12 to an input 13 on a communications unit, which may appropriately be a headset 14.

This headset may be of the passive type and merely consist of a microphone and a speaker. It may also be of the active type with is own power supply, amplifier and setting options:

- It should moreover be noted that nothing prevents the control unit 9 from being coupled to the communications unit and the PC via wireless connections, such as the short range connection of the Bluetooth type or the so-called DECT standard.
- The mode of operation of the setup will now be explained in greater detail.
  - When the PC is in its normal position, i.e. without any access code limitation, calls to and from the softphone are made via the headset 14.
- Settings of the headset volume, attenuation, redialling, etc. may be controlled directly from the keyboard of the PC, or, if the headset is of the active type with independent setting options, may be set from this.
- In those cases where the PC is on, but blocked, e.g. by an access code, it is nevertheless possible to transfer calls to or from the softphone in the PC, as the control unit 9 is adapted to be connected to the softphone and to transfer, only via the control buttons 10, a limited number of commands to the softphone, which may e.g. be the placing of emergency calls, answering of telephone calls and similar standard telephone functions. These limited commands may be provided through a driver or software application via the USB gate, which thus bypases the access code of the PC, but do not allow the PC to be operated via the keyboard thereof.
- All things considered, a very flexible access to a softphone is provided, no matter whether the PC is connected normally or it is blocked by a security code.

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#### **PATENT CLAIMS**

- 1. Switching of a communications unit (14) to the softphone (15) of a PC via an electrical connection, c h a r a c t e r i z e d in that a control unit (9) is coupled between the communications unit (14) and the softphone (15), said control unit being adapted via control buttons on the control unit to transfer commands to the softphone (15), both when the PC is coupled in normal position and when the PC is coupled in security position.
- 2. Switching according to claim 1, c h a r a c t e r i z e d in that the control unit (9) is connected to the softphone via a USB gate (6), while the communications unit (14) is connected by a wire (12) to the control unit (9).
- Switching according to claim 1, c h a r a c t e r i z e d in that the control
   unit (9) is connected wirelessly, e.g. by a short range Bluetooth connection,
   to the softphone and the communications unit (14).
  - 4. Switching according to claims 1-2, c h a r a c t e r i z e d in that the control unit (9) has a plurality of setting buttons (10), e.g. three.
  - 5. Switching according to claims 1-3, c h a r a c t e r i z e d in that the PC, when blocked for use by the security setting, is open for the reception of a limited number of commands from the control unit (9) to the softphone (15).
  - 6. Switching according to claims 1-4, characterized in that the control unit (9) comprises a sound card.
- 7. Switching according to claims 1 6, c h a r a c t e r i z e d in that the communications unit (14) is formed by a passive headset consisting of a microphone and a speaker.

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- 8. Switching according to claims 1-6, characterized in that the communications unit (14) is formed by an active headset with its own power supply and control buttons.
- 9. Switching according to claim 8, characterized in that the headset is powered from the USB gate (6) via the control unit (9) for the charging of the headset.

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